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Taxonomy & Inventories

Checklist of the family Zopheridae (Coleoptera, Tenebrionoidea) of Bulgaria

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Abstract

Background

Beetles of the family Zopheridae (Coleoptera, Tenebrionoidea) are rarely reported from Bulgaria and available data on their distribution in the country are scarce. Here, we provide an updated checklist of the family, based on published data and new records.

New information

Twenty-one species of the family Zopheridae are listed for Bulgaria. New data on the distribution of fourteen species are provided. The species *Colydium noblecourti* Parmain, Eckelt & Schuh, 2024 is reported for the first time for the country. The presence of the species *Aulonium trisulcum* (Geoffroy, 1785), *A. ruficorne* (G.-A. Olivier, 1790), *Orthocerus clavicornis* (Linnaeus, 1758), *Langelandia anophthalma* Aubé, 1842 and *Synchita mediolanensis* A. Villa & J. B. Villa, 1833 is confirmed for Bulgaria.

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Keywords

Tenebrionoidea, Zopheridae, distribution, Bulgaria

Introduction

According to the second edition of the Catalogue of Palaearctic Coleoptera, 16 species of the family Zopheridae (Coleoptera, Tenebrionoidea) are known for Bulgaria (Schuh 2020). However, some of the species records of earlier authors are omitted in the Catalogue and, for other species, there are no available published localities from Bulgaria (Guéorguiev et al. 2026). Species of Zopheridae are rarely reported from Bulgaria and special taxonomic or faunistic studies of the family in the country have not been yet conducted.

In the present work, we summarise all available literature records of the species of Zopheridae in Bulgaria and provide new distributional data for fourteen species. Original photographs of all examined species are provided. The prepared checklist also contains updated data on the global distribution of each species.

Materials and methods

The main part of the material for this study was collected by the authors in the period 1999 – 2025 from different regions of Bulgaria. Materials of other collectors, preserved in the Zoological Collection of Sofia University “St Kliment Ohridski”, Faculty of Biology, Sofia, Bulgaria (BFUS), are also examined. The newly-collected specimens are catalogued and deposited in the BFUS collection.

The identification of the newly-collected material was carried out by external morphology characteristics and, in cases where this was necessary, by the morphology of the male genitalia. The identification keys available in Kryzhanovsky (1965); Ivie et al. (2016); Lompe (2026) were used, as well as revisions and taxonomic studies of the genera and species, as follows: Węgrzynowicz (1999); Parmain et al. (2024) (for the genus *Colydium* Fabricius, 1792); Dajoz (1971); Jelínek (1981); Soldati et al. (2018) (for the genus *Bitoma* Herbst, 1793); Reitter (1912); Dajoz (1968); Dajoz (1969); Orousset (1989) (for the genus *Langelandia* Aubé, 1842); Schuh (1998); Ruta (2020) (for the genus *Synchita* Hellwig, 1792).

The historical collection of Dimitar Joakimov, preserved in the Entomological collection of the National Museum of Natural History, Sofia, Bulgaria (NMNHS) was examined to clarify the species composition of the genus *Colydium* Fabricius, 1792 in Bulgaria.

The photographs of the beetles were taken with a Canon EOS R50 camera with Laowa 25 mm f/2.8 2.5-5X Ultra Macro or Laowa 90 mm f/2.8 2x Ultra Macro APO lens, mounted on a WeMacro rail (Wemacro, Shanghai, China). The photographs of genital structures

were taken with a Canon EOS R50 camera with Laowa Aurogon FF 10-50X NA0.5 Supermicro APO lens or with Leica K3C camera attached to Leica DM750 microscope.

Checklist of the Zopheridae of Bulgaria

Order Coleoptera Linnaeus, 1758

Superfamily Tenebrionoidea Latreille, 1802

Family Zopheridae Solier, 1834

Subfamily Zopherinae Solier, 1834

Tribe Pycnomerini Erichson, 1845

Genus *Pycnomerus* Erichson, 1842

Pycnomerus sulcicollis (Germar, 1823)

Materials

a. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000728; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EB39599A-F863-5DA2-AAA6-94A37D84D018

b. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000729; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 40551079-9583-5E41-B7D3-74084D638B76

c. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000730; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 6C387AF2-D375-5C72-B8FD-F3ED15354219

d. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude:

41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000731; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: ABAD9BF6-6A72-5CB7-B762-22A1C2DEF1D2

e. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000732; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: CCA76659-7709-5440-8E31-D6369BAF0437

f. country: Bulgaria; stateProvince: Burgas; municipality: Malko Tarnovo; locality: Strandzha Mountains, SW of Slivarovo Village; verbatimElevation: 220 m; decimalLatitude: 41.960500; decimalLongitude: 27.659667; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.iv.2009–08.v.2009; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000733; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C45B4517-5895-5CC5-9083-0A87D6EAE56A

g. country: Bulgaria; stateProvince: Burgas; municipality: Tsarevo; locality: Strandzha Mountains, NE of Balgari Village; verbatimElevation: 180 m; decimalLatitude: 42.111583; decimalLongitude: 27.764717; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 8.v.2009–08.vi.2009; habitat: beech-oak forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000734; recordedBy: Plamen Mitov, Rumyana Kostova & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: CF65BB12-E551-560F-BA0E-BFF8E9640A6B

h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, S of Petrich; verbatimElevation: 460 m; decimalLatitude: 41.366581; decimalLongitude: 23.210889; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 06.iv.2012–15.v.2012; habitat: deciduous forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000735; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: E5E273DE-D0C9-51A0-B313-AA9E338ED2AB

i. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, S of Petrich; verbatimElevation: 460 m; decimalLatitude: 41.366581; decimalLongitude: 23.210889; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 15.v.2012–16.vi.2012; habitat: deciduous forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000736; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D83CC546-DE86-574C-9971-5492595F1732

j. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, S of Petrich; verbatimElevation: 460 m; decimalLatitude: 41.366581; decimalLongitude: 23.210889; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.vi.2012–18.vii.2012; habitat: deciduous forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000737; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9FA65618-9B85-58AE-8237-4063C5A44552

k. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84;

samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000738; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 8C644680-0758-5116-88C5-04285FE2D036

l. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000739; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: A04FF6C0-A8F4-57DB-AB9A-29188D19446E

m. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000740; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 98EA0A47-989F-58E4-87D4-940EABBB90E4

n. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000741; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 40B2A479-072E-5A50-AB72-8BF047BCBCD8

o. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000742; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: B27D5538-AC7A-576A-8E36-DC95D2F45CA3

p. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000743; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 8E460092-4CBA-53E9-B3E6-F9DF3A867313

q. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000744; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 21C061FA-0670-5FC1-876A-CE51A3C2DB6B

r. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest;

individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000745; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F4D5359E-E11D-5663-845D-C5D6D0DADEE9

s. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000746; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1A8D3C6F-93B2-5A90-ACC9-5A3DAEF080C5

t. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000747; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5B60E297-2712-50C6-AC23-CC98729E78A8

u. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000748; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 2ABC0B49-9902-52E8-B2BA-0D7753711519

v. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000749; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4C6D23D9-1CC0-5670-B545-9A92243B93FC

w. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000750; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C9A580C8-0644-53F9-BA66-CCAEE0DD85A0

x. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000751; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 19C1936B-7A87-5E1B-9F0C-CBE4F960AEF8

y. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000752; recordedBy:

Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9D6636CF-E76B-58D4-AEC8-70AEAD35595F

z. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000753; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4565BCB4-A871-50CC-AD88-BA2A85782249

aa. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.473667; decimalLongitude: 25.221667; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 21.x.2018; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000754; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F8D5A786-D6E7-5A51-BB8B-9B379C628E56

Distribution: Azerbaijan, Armenia, Bulgaria, Georgia, Greece, Romania, South European Territory of Russia, Ukraine, Asian Türkiye, Iran (Schuh 2020); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, this species has been recorded from Emine Cape (Palm (1966): 13, as *Dechomus sulcicollis*), from the vicinity of Kamchia River mouth (Black Sea coast) (Dajoz (1971): 100, as *Dechomus sulcicollis*) and from Belasitsa Mountains (Guéorguiev (2011): 13). In the present study, we report this species from Strandzha, Belasitsa and Sarnena Gora Mountains (Fig. 1).

Figure 1.

Pycnomerus sulcicollis (Germar, 1823) from Sarnena Gora Mountains, Bulgaria (female, BFUS-COL000738). Scale bar: 1 mm.

Pycnomerus terebrans (G.-A. Olivier, 1790)

Materials

a. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000755; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: 783D4245-1CD0-5CF9-8FA4-298F4A1E46C9

b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000756; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: E54AFD85-732A-5B2C-A1E5-D579B6E3F701

c. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000757; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: D64500A4-B5CD-5E67-84EE-B784766094B5

d. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000758; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: 874C599B-B9C3-5BF9-9A0E-FC32B8648C60

e. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000759; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: BEAA2B87-1F2A-5413-92C6-61FE0059EFC3

f. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park, near Park Hotel "Moskva"; samplingProtocol: under pine bark; verbatimEventDate: 27.iv.1999; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000760; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: E3C3E059-F271-5EDE-B73F-7C92E05B610D

g. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 600 m; decimalLatitude: 42.678083; decimalLongitude: 23.340583; geodeticDatum: WGS84; samplingProtocol: under pine bark; verbatimEventDate: 15.vi.2021; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000761; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2022; occurrenceID: 676A9DB6-7022-59DB-A8B9-B9B7B39F5CB9

h. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 600 m; decimalLatitude: 42.678083; decimalLongitude: 23.340583; geodeticDatum: WGS84; samplingProtocol: under pine bark; verbatimEventDate: 15.vi.2021; habitat: mixed forest; individualCount: 1; sex:

specimen; catalogNumber: BFUS-COL000762; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2022; occurrenceID: CC508DFB-F1CB-5882-84B3-A46DDE5C78F6

i. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 21.iii.2023; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000763; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B0E165A7-5705-54E1-826F-B8D9BACC4995

j. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 608 m; decimalLatitude: 42.678200; decimalLongitude: 23.340550; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 21.iii.2023; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000764; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 0EF78271-3F68-5E87-B587-C0790132516A

k. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 24.i.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000765; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5F0C1C1F-E106-583C-A082-B7BE53B9E648

l. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 28.i.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000766; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AD463E17-B1CD-5F87-8625-B5C70519F277

m. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 602 m; decimalLatitude: 42.678183; decimalLongitude: 23.340083; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 28.i.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000767; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: A02C5659-1A13-5C9F-AA83-83598CC2C240

n. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000768; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D8951E33-77E4-5BB8-BAE4-734342340FF6

o. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000769; recordedBy: Denis Gradinarov;

identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 330AAF11-79A1-53B2-AFBA-6F009058EE4D

p. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000770; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 56324A8F-34C9-5780-A8CE-FA23FF45A9FD

q. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000771; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 350E2E3F-14A0-5359-97DE-66B6BEB0C08F

r. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000772; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 6BA91968-3A03-562E-99F3-8B772516E0E8

s. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000773; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C2639A85-448C-5C72-B8BA-78460DFE02E8

t. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000774; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 00BFD72E-B95A-5394-AC66-EC5631523279

u. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 22.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000775; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 400B16B7-2469-52E4-B757-F6EAC87A31FD

v. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus sylvestris*; verbatimEventDate: 27.v.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000776; recordedBy: Denis Gradinarov & Ognyan

Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 61E99387-8D8E-53AB-A169-24FF19103CD6

w. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 27.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000777; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4FDFC4E6-BA25-5BBC-87B7-612D908BAFCA

x. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 596 m; decimalLatitude: 42.680100; decimalLongitude: 23.339233; geodeticDatum: WGS84; samplingProtocol: under bark of *Pinus nigra*; verbatimEventDate: 27.v.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000778; recordedBy: Denis Gradinarov & Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: FFB40030-4526-58A1-BB83-E2C1FE5D6A2C

y. country: Bulgaria; stateProvince: Varna; municipality: Varna; locality: NE of Varna, University Botanical Garden; verbatimElevation: 59 m; decimalLatitude: 43.236967; decimalLongitude: 28.003917; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 11.vii.2024; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000779; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 390A651D-D8DE-5C48-8F4C-73EC16EDC5B6

Distribution: Azerbaijan, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, France, Germany, Greece, Hungary, Italy, Poland, Portugal, Slovakia, Slovenia, Russia (Central and South European Territory), Switzerland, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Iran (Schuh 2020); Moldova (Bacal 2023, Bacal and Buşmachiu 2025); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, this species has been recorded from Emine Cape (Palm (1966): 14), from the vicinity of Kamchia River mouth (Black Sea coast) (Dajoz (1971): 100) and from Belasitsa Mountains (Guéorguiev (2011): 13). Here, we provide data on the occurrence of *P. terebrans* in city parks of Sofia (Fig. 2) and Varna.

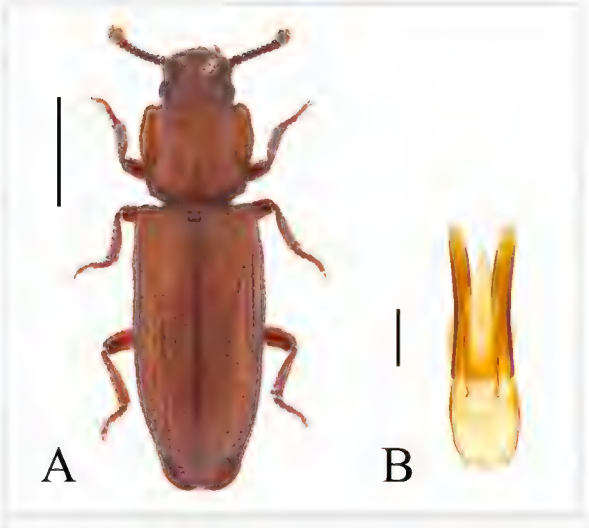

Figure 2.

Pycnomerus terebrans (G.-A. Olivier, 1790) from Sofia City, Bulgaria: **A** male (BFUS-COL000768); **B** aedeagus of the same specimen. Scale bars: 1 mm (A); 0.1 mm (B).

Subfamily Colydiinae Billberg, 1820

Tribe Colydiini Billberg, 1820

Genus *Aulonium* Erichson, 1845

Aulonium ruficorne (A. G. Olivier, 1790)

Material

a. country: Bulgaria; stateProvince: Haskovo; municipality: Topolovgrad; locality: Sakar Mountains, SE of Ustrem Village; verbatimElevation: 215 m; decimalLatitude: 41.972583; decimalLongitude: 26.483117; geodeticDatum: WGS84; samplingProtocol: under peeled pine bark; verbatimEventDate: 14.iv.2023; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000780; recordedBy: Denis Gradinarov & Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C9D0BD33-2645-5BDD-9409-DDD686290C16

Distribution: Azerbaijan, Armenia, Bulgaria, Croatia, France, Germany, Greece, Hungary, Italy, North Macedonia, Romania, Spain, South European Territory of Russia, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Iran, Israel, Lebanon, Turkmenistan, Algeria, Morocco, Tunisia (Schuh 2020); Portugal (Molina 2023).

Notes: This species has been previously reported for Bulgaria without exact locality (Ślipiński and Schuh 2008, Schuh 2020). In the present study, we report *A. ruficorne* from Sakar Mountains (Fig. 3) and, thus, confirm the presence of this species for the country.

Figure 3.

Aulonium ruficorne (G.-A. Olivier, 1790) from Sakar Mountains, Bulgaria (male, BFUS-COL000780). Scale bar: 1 mm.

Aulonium trisulcum (Geoffroy, 1785)

Materials

a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000781; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 975B1C35-87E5-5BA4-B1DD-8D96921A40E0

b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000782; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 7E419537-05C7-59CD-85D5-9B450A3A812A

c. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000783; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AD72B4CD-E3DA-587A-8C4C-EA50D07CF643

d. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Sandanski-Petrich Valley, SE of Starchevo Village; verbatimElevation: 95 m; decimalLatitude: 41.46812; decimalLongitude: 23.26900; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 20.vi.2013–21.vi.2013; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000784; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 8D88AE83-1C11-57EA-85BF-1C87D5F89EF9

e. country: Bulgaria; stateProvince: Varna; municipality: Dolni Chiflik; locality: Black Sea coast, E of Novo Oryahovo Village; verbatimElevation: 8 m; decimalLatitude: 42.99181; decimalLongitude: 27.89002; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 03.vii.2013–04.vii.2013; habitat: sandy beach next to longos forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000785; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 367EFFBA-6706-53ED-8B1A-F221FFCA4D6C

f. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Gorge, SW of Zemen; verbatimElevation: 593 m; decimalLatitude: 42.471056; decimalLongitude: 22.731361; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 05.vii.2015; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000786; recordedBy: Denis Gradinarov & Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: C9B3867A-0CBE-50E8-9DB3-26BF4E5108FF

g. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SW of Lilyanovo Village; verbatimElevation: 470 m; decimalLatitude: 41.612467; decimalLongitude: 23.311917; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 27.vi.2019–28.vi.2019; habitat: deciduous grove; individualCount: 1; sex: female; catalogNumber: BFUS-COL000787; recordedBy:

Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BB0E230C-901E-5B63-9F27-69E42075263A

h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Sandanski-Petrich Valley, E of Novo Hodzhovo Village; verbatimElevation: 124 m; decimalLatitude: 41.40721; decimalLongitude: 23.40666; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 30.vi.2019–01.vii.2019; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000788; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EDAF9236-2F23-5756-9128-6F641E61E4D7

i. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Kresna; locality: Kresnenski Prolom Gorge, Sheitan Dere; verbatimElevation: 205 m; decimalLatitude: 41.760583; decimalLongitude: 23.154583; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 01.vii.2019–02.vii.2019; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000789; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1673B0BB-B411-5BAB-8F7C-481C177B256E

j. country: Bulgaria; stateProvince: Haskovo; municipality: Topolovgrad; locality: Sakar Mountains, W of Ustrem Village; verbatimElevation: 101 m; decimalLatitude: 42.024167; decimalLongitude: 26.451550; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 28.vi.2022; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000790; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: FCE55DCA-2A4A-5ECB-B0D6-A01DA0371385

k. country: Bulgaria; stateProvince: Varna; municipality: Varna; locality: NE of Varna, University Botanical Garden; verbatimElevation: 47 m; decimalLatitude: 43.233750; decimalLongitude: 28.003617; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 13.vii.2024; habitat: meadow; individualCount: 1; sex: female; catalogNumber: BFUS-COL000791; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5453AEF3-6D75-55B0-ABA0-59737A7ED0EB

Distribution: Armenia, Austria, Belgium, Bosnia and Herzegovina, Czechia, France, Germany, Great Britain, Hungary, Italy, The Netherlands, North Macedonia, Norway, Poland, Russia (South, Central and North European Territory), Slovakia, Sweden, Switzerland, Ukraine, Iran (Schuh 2020); Spain, Portugal (Molina 2023); Luxembourg (Gerend 2023); Moldova (Bacal and Buşmachiu 2025); Bulgaria (present study).

Notes: This species has been previously reported for Bulgaria without exact locality by Anonymous (1907): 300, as *Aulonium sulcatum* [(G.-A. Olivier, 1790)]. The species is omitted for Bulgaria in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008; Schuh 2020). Here, we report *A. trisulcum* from several localities in south-western Bulgaria, from Sakar Mountains and from the Black Sea coast (Fig. 4) and, thus, confirm the presence of this species for the country. In our study, all the specimens were collected at light.

Figure 4.

Aulonium trisulcum (Geoffroy, 1785) from Varna, Bulgaria (female, BFUS-COL000791). Scale bar: 1 mm.

Genus *Colydium* Fabricius, 1792

Colydium elongatum (Fabricius, 1787)

Distribution: Azerbaijan, Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Czechia, Denmark, Finland, France, Great Britain, Germany, Greece, Hungary, Italy, Lithuania, North Macedonia, The Netherlands, Poland, Romania, Russia (European and Asian Territory), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Cyprus, Iran, Syria, Algeria, Morocco, Tunisia (Schuh 2020).

Notes: In Bulgaria, *C. elongatum* has been previously recorded from Sarnena Sredna Gora Mountains (Joakimov (1904): 16), from the vicinity of Ropotamo River mouth (Black Sea coast) (Dajoz (1971): 100), from Kresnenski Prolom Gorge, Maslen Nos Cape, Strandzha Mountains (Węgrzynowicz 1999: 287) and from north-eastern Bulgaria (without exact localities) (Parmain et al. (2024): 300 (map)). *Colydium elongatum* is similar in habitus to recently described *C. noblecourti* Parmain, Eckelt & Schuh, 2024 and some of the earlier records may, in fact, refer to the second species. Both specimens found in the historical collection of Dimitar Joakimov (NMNHS) and previously identified as *C. elongatum*, after revision of the identification turned out to be *C. noblecourti* (Fig. 5).

Colydium filiforme Fabricius, 1792

Distribution: Azerbaijan, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Czechia, France, Germany, Georgia, Greece, Hungary, Italy, Latvia,

Liechtenstein, Norway, Poland, Russia (South European and Asian Territory), Slovakia, Spain, Sweden, Switzerland, Ukraine, Iran (Schuh 2020); Central European Territory of Russia (Egorov et al. 2020); Asian Türkiye (Harman and Avcı 2023); Serbia (Marczak and Pepłowska-Marczak 2025).

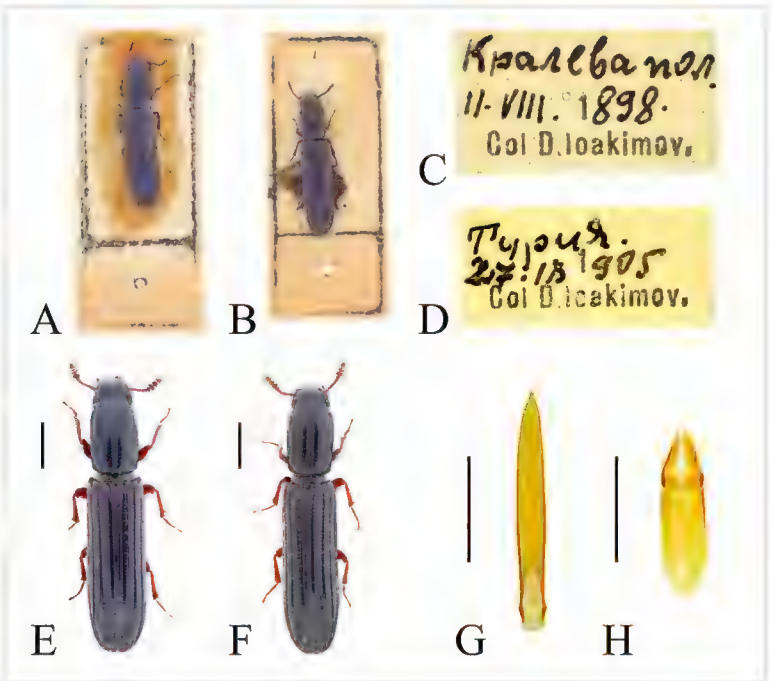

Figure 5.

Specimens of *Colydium noblecourti* Parmain, Eckelt & Schuh, 2024 preserved in the historical collection of Dimitar Joakimov, NMNHS. **A** male from Kraleva Polyana locality (specimen 1); **B** female from Turiya locality (specimen 2); **C** original label (specimen 1); **D** original label (specimen 2); **E** specimen 1 (re-mounted); **F** specimen 2 (re-mounted); **G** median lobe (specimen 1); **H** tegmen (specimen 1). Scale bars: 1 mm (E, F); 0.5 mm (G, H).

Notes: In Bulgaria, this species has been recorded from Slanchev Bryag seaside resort (Palm 1966: 22) and Belasitsa Mountains (Guéorguiev 2011: 13).

Colydium noblecourti Parmain, Eckelt & Schuh, 2024

Materials

a. country: Bulgaria; locality: Kraleva Pol[yana]; verbatimLocality: Kraleva pol. [in Bulgarien]; verbatimEventDate: II–VIII.1898; individualCount: 1; sex: male; recordedBy: Dimitar Joakimov; previousIdentifications: *Colydium elongatum* F.; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EF75C028-3DF3-551F-A91C-02CF522A2F07

b. country: Bulgaria; stateProvince: Stara Zagora; municipality: Pavel Banya; locality: [Sarnena Gora Mountains], Turiya Village; verbatimLocality: Turiya. [in Bulgarien]; verbatimEventDate: 27.IX.1905; individualCount: 1; sex: female; recordedBy: Dimitar Joakimov; previousIdentifications: *Colydium elongatum* F.; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 7489FC00-B145-51F7-B7FE-D61CA16C1592

c. country: Bulgaria; stateProvince: Sliven; municipality: Tvarditsa; locality: Central Stara Planina Mountains, near Bukovets Hut; verbatimElevation: 1052 m; decimalLatitude: 42.789225; decimalLongitude: 25.890651; geodeticDatum: WGS84; samplingProtocol: at night on tree trunks; verbatimEventDate: 27.viii.2009; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000792; recordedBy: Ognyan

Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 24DAE36B-7B31-5552-875A-9FE2BBD573AE

Distribution: Austria, Andorra, Bosnia, Croatia, Czechia, France, Germany, Iran, Italy, Slovakia, Slovenia, Spain, Asian part of Türkiye (Parmain et al. 2024); Serbia (Marczak and Pepłowska-Marczak 2025); Russia (Kaliningrad Oblast) (Alekseev 2025); Belgium (Thomaes et al. 2025); Bulgaria (present study).

Notes: In the present study, we report *C. noblecourti* from "Kraleva polyana" (probably, Kraleva livada locality near Kameno Pole Village, in north-eastern Bulgaria), from Sarnena Gora Mountains and from Central Stara Planina Mountains (Fig. 5; Fig. 6). New records for Bulgaria.

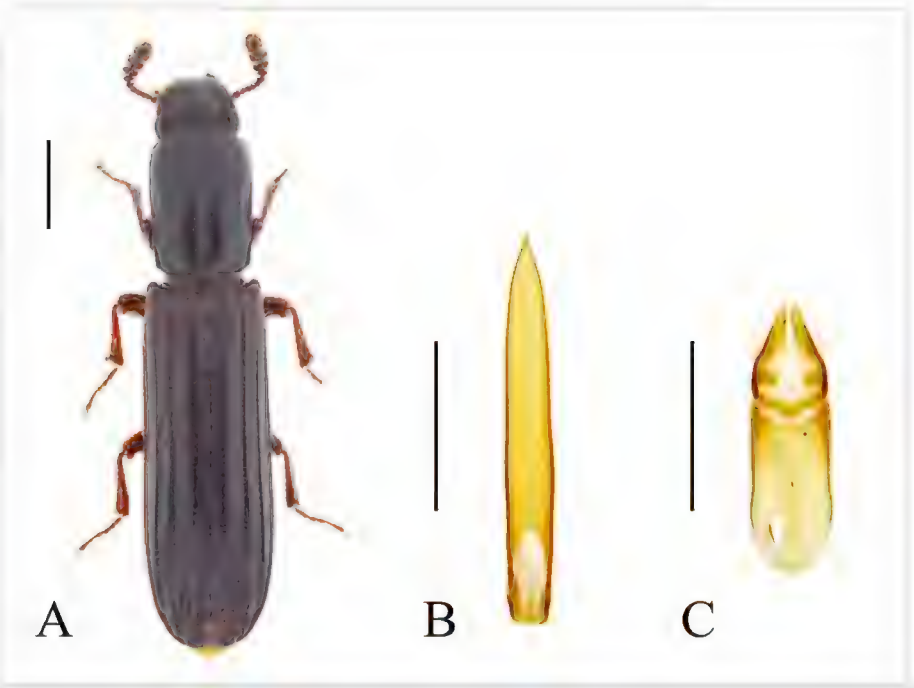

Figure 6.

Colydium noblecourti Parmain, Eckelt & Schuh, 2024 from Central Stara Planina Mountains, Bulgaria: **A** male (BFUS-COL000792); **B** median lobe of the same specimen; **C** tegmen of the same specimen. Scale bars: 1 mm (A); 0.5 mm (B, C).

Tribe Orthocerini Blanchard, 1845 (1820)

Genus *Orthocerus* Latreille, 1796

Orthocerus clavicornis (Linnaeus, 1758)

Material

a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Alibotush Mt [= Slavyanka Mts], Souhoto Ezero, near Gotsev Vrah Peak; verbatimElevation: 2065 m; samplingProtocol: pitfall traps; verbatimEventDate: 5.vii.2006–10.viii.2006; individualCount: 1; sex: female; catalogNumber: BFUS-COL000793; recordedBy: Nikolay Simov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 7C004743-F2BF-527E-884D-51D5374A1D08

Distribution: Austria, Belgium, Bosnia and Herzegovina, Belarus, Croatia, Czechia, Denmark, Finland, France, Germany, Great Britain, Hungary, Latvia, Liechtenstein, Luxembourg, The Netherlands, Norway, Italy, Ireland, Poland, Romania, Russia (Central European Territory, East Siberia, Far East), Slovakia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, "Caucasus", Asian Türkiye, Mongolia (Schuh 2020); Iran (Otero and Ghahari 2020); Belgium (Thomaes et al. 2025); Bulgaria (Angelov 1968a; present study).

Notes: In Bulgaria, this species has been reported from several localities in Western Rhodopes Mountains and from Izdremets Peak in Stara Planina Mountains (Angelov 1968a: 99). The species is omitted for Bulgaria in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008; Schuh 2020). Here, we report *O. clavicornis* from Slavyanka Mountains (Fig. 7) and confirm the presence of this species in Bulgaria.

Figure 7.

Orthocerus clavicornis (Linnaeus, 1758) from Slavyanka Mountains, Bulgaria (female, BFUS-COL000793). Scale bar: 1 mm.

Tribe Rhopalocerini Reitter, 1911

Genus *Rhopalocerus* W. Redtenbacher, 1842

Rhopalocerus rondanii (A. Villa & J. B. Villa, 1833)

Distribution: Austria, Bulgaria, Croatia, Czechia, Germany, Greece, Hungary, Italy, Portugal, Romania, Slovakia, Ukraine, Serbia and Montenegro (Schuh 2020); Iran (Farashiani et al. 2022); Moldova (Bacal 2023, Bacal and Buşmachiu 2025).

Notes: The species has been recorded for Bulgaria without exact locality (Ślipiński and Burakowski 1988: 92, Ślipiński and Schuh 2008: 80, Schuh 2020: 69).

Tribe Synchitini Erichson, 1845

Genus *Bitoma* Herbst, 1793

Bitoma crenata (Fabricius, 1775)

Materials

a. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: [Zemen Gorge], near Zemen; verbatimLocality: near Zemen; samplingProtocol: under bark; verbatimEventDate: 15.iv.2000; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000794; recordedBy: Stoyan Dimitrov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 3E0F1F2C-CB4E-5F64-9339-76B85D8607C3

b. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: [Zemen Gorge], near Zemen; verbatimLocality: near Zemen; samplingProtocol: under bark; verbatimEventDate: 15.iv.2000; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000795; recordedBy: Stoyan Dimitrov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EC7A4D03-68AE-5048-9A6B-B28BF2116FD5

c. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000796; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 4090C09F-759D-5027-AFB2-936681F90E25

d. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000797; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: AA3C1630-A03B-5931-8E41-629B3704E499

e. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000798; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: F7EBD4BB-DDBA-57A1-B296-2CEDFE16E36F

f. country: Bulgaria; stateProvince: Kyustendil; municipality: Kyustendil; locality: Osogovska Planina Mountains, near Trite buki Hut; verbatimElevation: 1550 m; verbatimEventDate: 22.viii.2003; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000799; recordedBy: Yana Petrova, Denis Gradinarov & Evgeni Chehlarov; identifiedBy: Denis Gradinarov; dateIdentified: 2020; occurrenceID: 57087641-23D9-56DC-8413-166042393377

g. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Satovcha; locality: Western Rhodopes Mountains, E of Dolen Village; verbatimElevation: 887 m; decimalLatitude: 41.622292; decimalLongitude: 23.947836; geodeticDatum: WGS84; samplingProtocol: in oak stump; verbatimEventDate: 18.x.2011; habitat: mixed forest; individualCount: 1; sex:

specimen; catalogNumber: BFUS-COL000800; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D186FD7D-D947-591F-B139-A3CCEAD45B2F

h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Satovcha; locality: Western Rhodopes Mountains, E of Dolen Village; verbatimElevation: 887 m; decimalLatitude: 41.622292; decimalLongitude: 23.947836; geodeticDatum: WGS84; samplingProtocol: in oak stump; verbatimEventDate: 18.x.2011; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000801; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 99EB2DB0-4701-5DE0-8405-70EB47DBC7E0

i. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Satovcha; locality: Western Rhodopes Mountains, E of Dolen Village; verbatimElevation: 887 m; decimalLatitude: 41.622292; decimalLongitude: 23.947836; geodeticDatum: WGS84; samplingProtocol: in oak stump; verbatimEventDate: 18.x.2011; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000802; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 96C2D2ED-A7FF-5AC2-B6CD-87B522D9EC87

j. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000803; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: DA421E1B-9BAA-5864-B4EE-4D531EC05D1A

k. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000804; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 631DE704-E427-5456-9EC7-4ADC9BC21E37

l. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000805; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 8ABE7269-B9B8-5F27-BDED-E4F6CE63186E

m. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000806; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BFC69074-0F18-5E97-B0A3-9C6EC9CC3D43

n. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000807; recordedBy: Denis Gradinarov; identifiedBy: Denis

Gradinarov; dateIdentified: 2026; occurrenceID: 9A30EA4F-B196-5C3A-B3F6-9FCD6584943E

o. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000808; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: A202072A-0896-5999-9656-4B3046D2602C

p. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000809; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 01DA15EE-2DDA-5796-922C-219E8AB47AFA

q. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000810; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9BF7E1DA-4925-5F7A-A84D-10396C514BC2

r. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000811; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 770B80CD-6819-5B7D-9029-F59A7E993267

s. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000812; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 83A39F11-BB4C-5A13-887B-5827A9B7CB23

t. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000813; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1DF35888-B7C0-5D13-9636-237C04489AED

u. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000814; recordedBy: Denis Gradinarov; identifiedBy: Denis

Gradinarov; dateIdentified: 2026; occurrenceID: 0D0417EB-0FB6-52E3-9FD5-8FB7AF64B7B9

v. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000815; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 600E91DA-8C9E-5271-837C-6E01615B4535

w. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000816; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F172DC6F-5EA4-5F4B-A140-6E362A44DC69

x. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000817; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9A8ECEE4-1408-51A0-9E1C-E9E2506F74A4

y. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000818; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B9AF2DEF-1439-546B-B0BC-3CBBF0479D03

z. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000819; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 45F01E23-A8FE-5B3B-B358-A1C53A65EBA0

aa. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000820; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F7C28627-A4DA-581E-AD5D-DECE644CB69B

ab. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000821; recordedBy: Denis Gradinarov; identifiedBy: Denis

Gradinarov; dateIdentified: 2026; occurrenceID: 6EC438E4-DE35-54BB-9332-E2ADAF3DAC18

ac. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000822; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: CC4F20C4-E9EA-581E-86DA-0C2A30C053C1

ad. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000823; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 67F63F77-7225-5410-B686-72179C5EFEC5

ae. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000824; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5D56D73E-1FCC-5B1F-8E0D-F1D86862338A

af. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000825; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C0A113FA-6347-5587-A159-A7BD05C8EE7A

ag. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000826; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4A2F647A-658E-523F-B2A0-C901EC752645

ah. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000827; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C38CB674-27F0-58A1-890D-D71627AF4DF0

ai. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000828; recordedBy: Denis Gradinarov; identifiedBy: Denis

Gradinarov; dateIdentified: 2026; occurrenceID: CA18FD4E-FEF1-5974-ACAB-4B89D62D6A59

aj. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000829; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 0CBC0212-880A-53B7-85FF-425C4055E099

ak. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000830; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: A7086FA7-4751-583C-8152-30AD3FBC8F4A

al. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000831; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AFD5FF2F-EEFA-5D8D-BAAB-02372F826D43

am. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000832; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1FE9C9B6-EE92-5B00-A5A0-4C96BD9AF2CF

an. country: Bulgaria; stateProvince: Pernik; municipality: Zemen; locality: Zemen Valley; verbatimElevation: 587 m; decimalLatitude: 42.472250; decimalLongitude: 22.737667; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus nigra*; verbatimEventDate: 03.xi.2012; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000833; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1006C246-64CE-5AED-93C9-302F72ED8D07

ao. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Sandanski-Petrich Valley, SE of Starchevo Village; verbatimElevation: 98 m; decimalLatitude: 41.467211; decimalLongitude: 23.268465; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus alba*; verbatimEventDate: 29.v.2013; habitat: riverine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000834; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C2BDED6A-4E3B-5A1C-9A47-EEB2371D40E1

ap. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, NE of Kalimantsi Village; verbatimElevation: 300 m; decimalLatitude: 41.46451; decimalLongitude: 23.49091; geodeticDatum: WGS84; samplingProtocol: under alder bark; verbatimEventDate: 28.vi.2019; habitat: riverine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000835; recordedBy: Ognyan Sivilov;

identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: F68BFB36-6A1A-55F0-9F8C-B998CF233897

aq. country: Bulgaria; stateProvince: Pleven; municipality: Gulyantsi; locality: Western Danubian Plain, N of Gulyantsi; verbatimElevation: 25 m; decimalLatitude: 43.68686598; decimalLongitude: 24.70856; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus* sp.; verbatimEventDate: 18.v.2021; habitat: clearing area; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000836; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9F666FC3-7089-5513-9062-944B78F8B31A

ar. country: Bulgaria; stateProvince: Pleven; municipality: Gulyantsi; locality: Western Danubian Plain, N of Gulyantsi; verbatimElevation: 25 m; decimalLatitude: 43.68686598; decimalLongitude: 24.70856; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus* sp.; verbatimEventDate: 18.v.2021; habitat: clearing area; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000837; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 62FBE2E2-85A3-5D6E-AA06-AB44E8FBF326

as. country: Bulgaria; stateProvince: Pleven; municipality: Dolna Mitropolia; locality: Middle Danubian Plain, N of Riben Village; verbatimElevation: 41 m; decimalLatitude: 43.54513202; decimalLongitude: 24.61941; geodeticDatum: WGS84; samplingProtocol: under bark of *Populus* sp.; verbatimEventDate: 19.v.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000838; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: C2444C13-73E1-5135-9562-FB72DEF9D60C

at. country: Bulgaria; stateProvince: Silistra; municipality: Glavinitsa; locality: Eastern Danubian Plain, N of Dolno Ryahovo Village; verbatimElevation: 15 m; decimalLatitude: 44.08248402; decimalLongitude: 26.78935; geodeticDatum: WGS84; samplingProtocol: under bark of *Salix* sp.; verbatimEventDate: 07.vii.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000839; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B3B420F6-546C-5723-A3D4-7EF99126AA37

au. country: Bulgaria; stateProvince: Silistra; municipality: Glavinitsa; locality: Eastern Danubian Plain, N of Dolno Ryahovo Village; verbatimElevation: 15 m; decimalLatitude: 44.08248402; decimalLongitude: 26.78935; geodeticDatum: WGS84; samplingProtocol: under bark of *Salix* sp.; verbatimEventDate: 07.vii.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000840; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 152A0296-A02D-5CC2-86F6-C8FCDF497E64

av. country: Bulgaria; stateProvince: Ruse; municipality: Borovo; locality: Eastern Danubian Plain, N of Batin Village; verbatimElevation: 18 m; decimalLatitude: 43.67351001; decimalLongitude: 25.6888059; geodeticDatum: WGS84; samplingProtocol: under bark of *Salix* sp.; verbatimEventDate: 07.vii.2021; habitat: riverine vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000841; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5AF446EC-8903-55E9-8D7B-7C1A62B3E22F

aw. country: Bulgaria; stateProvince: Vratsa; municipality: Oryahovo; locality: Western Danubian Plain, N of Galovo Village; verbatimElevation: 43 m; decimalLatitude: 43.66895101; decimalLongitude: 24.07607599; geodeticDatum: WGS84; samplingProtocol: on trunk of living *Populus alba*; verbatimEventDate: 08.vii.2021; habitat: deciduous forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000842;

recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 77D90DAE-37D4-56A9-9D9A-C764F8A1D056

ax. country: Bulgaria; stateProvince: Vratsa; municipality: Oryahovo; locality: Western Danubian Plain, N of Galovo Village; verbatimElevation: 43 m; decimalLatitude: 43.66895101; decimalLongitude: 24.07607599; geodeticDatum: WGS84; samplingProtocol: on trunk of living *Populus alba*; verbatimEventDate: 08.vii.2021; habitat: deciduous forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000843; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 644930BF-DEA9-50DD-B7A2-2FD1BA7546A0

ay. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Simitli; locality: Maleshevska Planina Mountains, SW of Polena Village; verbatimElevation: 461 m; decimalLatitude: 41.833917; decimalLongitude: 23.094767; geodeticDatum: WGS84; samplingProtocol: at flight; verbatimEventDate: 25.iv.2022; habitat: roadside vegetation; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000844; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 123836BD-FC3A-5BE2-A93B-FA982822A9BC

az. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Lozenska Planina Mountains, N of Dolni Pasarel Village; verbatimElevation: 886 m; decimalLatitude: 42.567250; decimalLongitude: 23.499283; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 07.v.2023; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000845; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 458B6F85-246E-5E13-9CF8-71328D2E3202

ba. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Lozenska Planina Mountains, N of Dolni Pasarel Village; verbatimElevation: 886 m; decimalLatitude: 42.567250; decimalLongitude: 23.499283; geodeticDatum: WGS84; samplingProtocol: under bark; verbatimEventDate: 07.v.2023; habitat: oak forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000846; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: E4D99C03-47E4-5FF1-9A53-3C148F9E7312

Distribution: Azerbaijan, Albania, Armenia, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Belarus, Croatia, Czechia, Denmark, Estonia, Finland, France, Great Britain, Germany, Georgia, Greece, Hungary, Italy, Latvia, Liechtenstein, Kazakhstan, Malta, North Macedonia, Moldova, The Netherlands, Norway, Poland, Romania, Russia (South, Central and North European Territory, East and West Siberia, Far East), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, Kazakhstan, Mongolia, Algeria, Tunisia, Nearctic Region (Schuh 2020); Iran (Otero and Ghahari 2020, Farashiani et al. 2022).

Notes: In Bulgaria, this species has been recorded from Sarnena Sredna Gora Mountains (Joakimov (1904): 16, as *Ditoma crenata*) and from Maleshevska Planina Mountains (Guéorguiev and Ljubomirov 2009: 254). Here, we record *B. crenata* from a number of localities from Danubian Plain (Fig. 8) and south-western Bulgaria.

Figure 8.

Bitoma crenata (Fabricius, 1775) from western Danubian Plain, Bulgaria (BFUS-COL000836). Scale bar: 1 mm.

Genus *Colobicus* Latreille, 1807

Colobicus hirtus (Rossi, 1790)

Materials

a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Hadzhidimovo; locality: SE of Paril Village; verbatimElevation: 755 m; decimalLatitude: 41.432667; decimalLongitude: 23.700117; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 17.vi.2013–18.vi.2013; habitat: riverine vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000847; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: D81E3163-0D57-5463-8170-D40FD6828FC5

b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 615 m; decimalLatitude: 42.678067; decimalLongitude: 23.340433; geodeticDatum: WGS84; samplingProtocol: under bark of *Quercus rubra*; verbatimEventDate: 21.iii.2023; habitat: mixed forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000848; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B1A9649D-6CE5-5D33-B989-435F74B2870B

Distribution: Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, France, Great Britain, Germany, Greece, Hungary, Italy, Liechtenstein, Poland, Russia (South, Central and North European Territory, West Siberia, Far East), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, Afghanistan, Japan, China (Northern Territory), Asian Türkiye, Morocco (Schuh 2020); Romania (Merkl et al. 2016); Iran (Otero and Ghahari 2020, Farashiani et al. 2022); Moldova (Bacal

2023, Bacal and Buşmachiu 2025); Kazakhstan (Temreshev 2025); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, this species has been recorded from Varna (Anonymous (1907): 300, as *Colobicus emarginatus*), Emine Cape (Palm 1966: 14), from the vicinity of Ropotamo River mouth (Black Sea coast) (Dajoz 1971: 101), from Maleshevska planina Mountains (Bencheva and Doychev 2022) and from southern Dobrudzha (Trigortsi and Dropla Villages) (Guéorguiev et al. 2026: 4). In the present study, we report *C. hirtus* from the vicinity of Paril Village (between Pirin and Slavyanka Mountains) (Fig. 9) and from Sofia City.

Figure 9.

Colobicus hirtus (Rossi, 1790) from Paril Village, Bulgaria (male, BFUS-COL000847). Scale bar: 1 mm.

Genus *Endophloeus* Dejean, 1834

Endophloeus markovichianus (Piller & Mitterpacher, 1783)

Distribution: Austria, Bosnia and Herzegovina, Bulgaria, Croatia, France, Great Britain, Greece, Hungary, Italy, North Macedonia, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Ukraine, Serbia and Montenegro, European Türkiye, Algeria, Morocco, Tunisia (Schuh 2020); Iran (Otero and Ghahari 2020); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, this species is known from Emine Cape (Palm 1966: 13), Borovets (Rila Mountains), Petrohan and from the vicinity of Kamchia River mouth (Black Sea coast) (Dajoz 1971: 99).

Endophloeus squarrosus Germar, 1847

Distribution: Greece, Serbia and Montenegro, European Türkiye (Schuh 2020); Bulgaria (Roubal 1931).

Notes: In Bulgaria, this species has been recorded from Rila Mountains (Roubal 1931: 453). The species is omitted for the country in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008, Schuh 2020).

Genus *Langelandia* Aubé, 1842

Subgenus *Langelandia* Aubé, 1842

Langelandia (*Langelandia*) *anophthalma* Aubé, 1842

Materials

a. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia Valley, Kremikovtsi locality; verbatimElevation: 696 m; decimalLatitude: 42.792450; decimalLongitude: 23.492717; geodeticDatum: WGS84; samplingProtocol: under nest of *Spermophilus citellus* L.; verbatimEventDate: 17.vii.2019; habitat: pasture; individualCount: 1; sex: female; catalogNumber: BFUS-COL000849; recordedBy: Vladimir Stefanov & Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 003A78CA-906A-5126-BCF5-659E9D152C7C

b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia Valley, Kremikovtsi locality; verbatimElevation: 690 m; decimalLatitude: 42.791567; decimalLongitude: 23.503700; geodeticDatum: WGS84; samplingProtocol: in nest of *Spermophilus citellus* L.; verbatimEventDate: 02.iii.2021; habitat: pasture; individualCount: 1; sex: male; catalogNumber: BFUS-COL000850; recordedBy: Vladimir Stefanov & Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1ACD2470-950D-5A54-95C8-5A1ED3F1F143

c. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia Valley, Kremikovtsi locality; verbatimElevation: 699 m; decimalLatitude: 42.792633; decimalLongitude: 23.491717; geodeticDatum: WGS84; samplingProtocol: in burrow of *Spermophilus citellus* L.; verbatimEventDate: 02.iii.2021; habitat: pasture; individualCount: 1; sex: male; catalogNumber: BFUS-COL000851; recordedBy: Vladimir Stefanov & Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 38470FDF-8C1A-5968-A9CE-4C6ACCDD8002

Distribution: Austria, Czechia, Belgium, Bosnia and Herzegovina, France, Great Britain, Germany, Greece, Hungary, Italy, The Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Switzerland, Ukraine, Serbia and Montenegro (Schuh 2020); Bulgaria (Bekchiev and Guéorguiev 2015; present study).

Notes: *Langelandia anophthalma* is a highly variable species with a wide distributional range in Europe (Dajoz 1969; Orousset 1989). We consider its relatively larger body size and the morphology of the aedeagus as the main features for distinguishing it from other similar species in the subgenus *Langelandia* (Dajoz 1969;

Orousset 1989). For Bulgaria, *L. anophthalma* is mentioned without exact locality by Bekchiev and Guéorguiev (2015): 339. The species is not listed for Bulgaria in both editions of the Catalogue of Palaearctic Coleoptera (Ślipiński and Schuh 2008; Schuh 2020). Herein, we confirm the presence of *L. anophthalma* in Bulgaria and record the notable cases of the species inhabiting the burrows (including the nesting materials) of the European souslik (*Spermophilus citellus* L.) (Fig. 10).

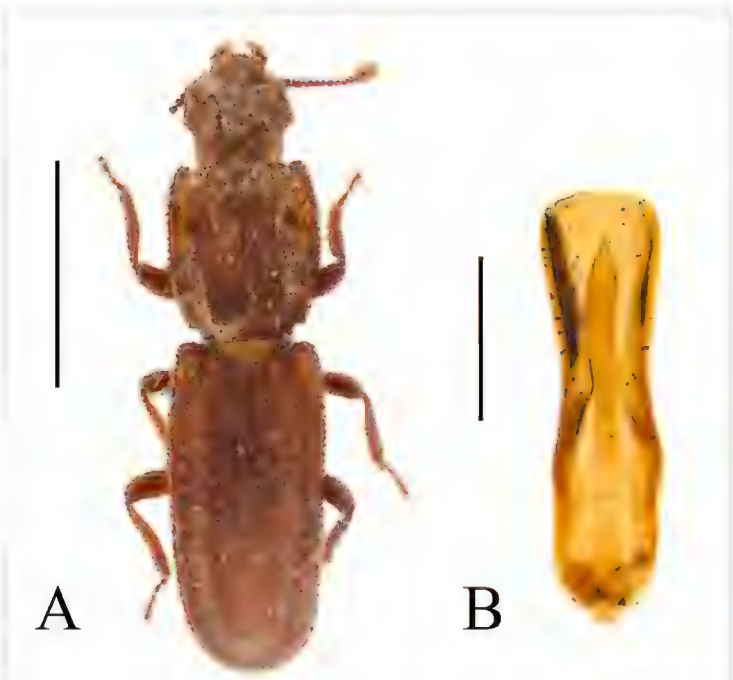

Figure 10.

Langelandia anophthalma Aubé, 1842 from Sofia Valley, Bulgaria: **A** male (BFUS-COL000850); **B** aedeagus of the same specimen. Scale bars: 1 mm (A); 0.1 mm (B).

Genus *Nosodomodes* Reitter, 1922

Nosodomodes diabolicus (Schaufuss, 1862)

Materials

a. country: Bulgaria; stateProvince: Stara Zagora; municipality: Bratya Daskalovi; locality: Sarnena Gora Mountains, NW of Gorno Novo Selo Village; verbatimElevation: 800 m; decimalLatitude: 42.47418; decimalLongitude: 25.22207; geodeticDatum: WGS84; samplingProtocol: under oak bark; verbatimEventDate: 24.ix.2018; habitat: deciduous forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000852; recordedBy: Yana Petrova; identifiedBy: Denis Gradinarov; dateIdentified: 2021; occurrenceID: 9CA8EE95-B2EA-5224-9612-5ED824C1F009

b. country: Bulgaria; stateProvince: Shumen; municipality: Shumen; locality: Shumensko Plato Nature Park; verbatimElevation: 485 m; decimalLatitude: 43.255567; decimalLongitude: 26.887117; geodeticDatum: WGS84; samplingProtocol: under beech bark; verbatimEventDate: 01.vi.2019; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000853; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 33A5A1C8-C902-5D5C-B92E-7070BAFF8C80

c. country: Bulgaria; stateProvince: Shumen; municipality: Shumen; locality: Shumensko Plato Nature Park; verbatimElevation: 485 m; decimalLatitude: 43.255567; decimalLongitude: 26.887117; geodeticDatum: WGS84; samplingProtocol: under beech bark; verbatimEventDate: 01.vi.2019; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000854; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: FD760EFC-5DAE-5A40-B513-F5C659705480

d. country: Bulgaria; stateProvince: Shumen; municipality: Shumen; locality: Shumensko Plato Nature Park; verbatimElevation: 485 m; decimalLatitude: 43.254167; decimalLongitude: 26.888433; geodeticDatum: WGS84; samplingProtocol: under beech bark; verbatimEventDate: 01.vi.2019; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000855; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 626D990B-2CB6-50C4-B1FD-E7692F0CC7BD

Distribution: Armenia, Bulgaria, Greece, North Macedonia, Romania, Ukraine, Serbia and Montenegro, Asian Türkiye (Schuh 2020); Iran (Otero and Ghahari 2020); Moldova (Bacal 2023, Bacal and Buşmachiu 2025).

Notes: In Bulgaria, this species has been recorded from Emine Cape (Palm (1966): 14, as *Corticus diabolicus*) and from Petrohan (Dajoz (1971): 99, as *Corticus diabolicus*). Here, we record *N. diabolicus* from Sarnena Gora Mountains (Fig. 11) and from Shumensko Plato Nature Park.

Figure 11.

Nosodomodes diabolicus (Schaufuss, 1862) from Sarnena Gora Mountains, Bulgaria (male, BFUS-COL000852). Scale bar: 1 mm.

Nosodomodes tuberculatus (Germar, 1832)

Materials

a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Gotse Delchev; locality: Pirin Mountains, Popovi Livadi Village; verbatimElevation: 1430 m; decimalLatitude: 41.552674; decimalLongitude: 23.638117; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 18.vi.2012–20.vii.2012; habitat: pine forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000856; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 1F942689-81BC-56A4-8DDF-D4BBA3327E27

b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Gotse Delchev; locality: Pirin Mountains, Popovi Livadi Village; verbatimElevation: 1430 m; decimalLatitude: 41.552674; decimalLongitude: 23.638117; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 10.ix.2012–17.x.2012; habitat: pine forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000857; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BBC3A292-F373-5D99-BFAE-CA9B6693570C

Distribution: Bulgaria, Greece, North Macedonia, Romania, South European Territory of Russia, Ukraine (Schuh 2020).

Notes: In Bulgaria, this species has been recorded from Sarnena Sredna Gora Mountains (Joakimov (1904): 16, as *Corticus tuberculatus*), Central Stara Planina Mountains (Kozya Stena Hut) (Angelov (1968b): 144, as *Corticus tuberculatus*) and from Belasitsa Mountains (Guéorguiev 2011: 13). Here, we record *N. tuberculatus* from Pirin Mountains (Fig. 12).

Figure 12.

Nosodomodes tuberculatus (Germar, 1832) from Pirin Mountains, Bulgaria (female, BFUS-COL000857). Scale bar: 1 mm.

Genus *Synchita* Hellwig, 1792

Synchita humeralis (Fabricius, 1792)

Distribution: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Denmark, Finland, France, Great Britain, Germany, Hungary, Italy, Latvia, North Macedonia, Moldova, Norway, Poland, Romania, Russia (South, Central and North European Territory, East Siberia, Far East), Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro (Schuh 2020).

Notes: In Bulgaria, this species has been recorded without exact localities (Ślipiński and Schuh 2008: 84; Schuh 2020: 75).

Synchita mediolanensis A. Villa & J. B. Villa, 1833

Materials

a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Belasitsa Mountains, above Samuilovo Village; verbatimElevation: 385 m; decimalLatitude: 41.367400; decimalLongitude: 23.091700; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 19.vi.2013–20.vi.2013; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000858; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4D526E38-B5C2-5339-9324-4BA6687C830A

b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Petrich; locality: Sandanski-Petrich Valley, SE of Starchevo Village; verbatimElevation: 95 m; decimalLatitude: 41.46812; decimalLongitude: 23.26900; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 20.vi.2013–21.vi.2013; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000859; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5A29A062-0212-5C76-BC70-A53CB7F12326

c. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, NE of Kalimantsi Village; verbatimElevation: 315 m; decimalLatitude: 41.465033; decimalLongitude: 23.488750; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 28.vi.2019–29.vi.2019; habitat: xerothermic vegetation; individualCount: 1; sex: male; catalogNumber: BFUS-COL000860; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 9775951C-6EF0-50F7-9662-1519588AAE80

d. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Kresna; locality: Kresnenski Prolom Gorge, Sheitan Dere; verbatimElevation: 205 m; decimalLatitude: 41.760583; decimalLongitude: 23.154583; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 01.vii.2019–02.vii.2019; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000861; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 7936D41E-E981-58B0-A207-2D29D811136F

e. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Kresna; locality: Kresnenski Prolom Gorge, Sheitan Dere; verbatimElevation: 205 m; decimalLatitude: 41.760583; decimalLongitude: 23.154583; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 01.vii.2019–02.vii.2019; individualCount: 1; sex: specimen;

catalogNumber: BFUS-COL000862; recordedBy: Ognyan Sivilov & Boyan Zlatkov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: AB11B86E-C0CF-58E3-A303-02512993D770

f. country: Bulgaria; stateProvince: Varna; municipality: Varna; locality: NE of Varna, University Botanical Garden; verbatimElevation: 59 m; decimalLatitude: 43.236967; decimalLongitude: 28.003917; geodeticDatum: WGS84; samplingProtocol: at light; verbatimEventDate: 11.vii.2024; habitat: riverine forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000863; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B226966D-538B-5C67-A0CA-35669D37D565

Distribution: Azerbaijan, Austria, Bulgaria, Czechia, France, Germany, Greece, Hungary, Italy, Portugal, Romania, Slovakia, Spain, South European Territory of Russia, Switzerland, Ukraine, Cyprus, Iran, Asian Türkiye, Algeria (Schuh 2020).

Notes: In Bulgaria, this species has been previously recorded without exact localities (Ślipiński and Schuh 2008: 84, Schuh 2020: 75). Herein, we report *S. mediolanensis* from Varna (Fig. 13) and from several localities in south-western Bulgaria, confirming the presence of the species in the country.

Figure 13.

Synchita mediolanensis A. Villa & J. B. Villa, 1833 from Varna, Bulgaria (male, BFUS-COL000863). Scale bar: 1 mm.

Synchita separanda (Reitter, 1882)

Distribution: Armenia, Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Finland, France, Great Britain, Germany, Hungary, Italy, The Netherlands, Norway, Poland, Romania, Russia (South, Central and North European Territory), Slovakia, Spain, Sweden, Switzerland, Ukraine, Iran, Asian Türkiye (Schuh 2020); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, this species has recently been reported from southern Dobrudzha (Trigortsi Village) (Guéorguiev et al. 2026: 4).

Synchita undata Guérin-Méneville, 1844

Materials

a. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000864; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: DB2BF278-6A11-52F6-B052-490F0062AFB5

b. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000865; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 338CDE1F-0F9B-57B8-BDC0-AC4A702F0E69

c. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000866; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5CCBF18D-B321-513A-B602-06ABC63CF2B3

d. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000867; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BCAEA6DE-9433-5D0E-AE73-FA8D32F0F82B

e. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000868; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 12BE0BE1-DE76-5DCC-A0F1-7B5DC48161FA

f. country: Bulgaria; stateProvince: Sofia City; municipality: Stolichna; locality: Sofia City, Borisova Gradina Park; verbatimElevation: 579 m; decimalLatitude: 42.679133; decimalLongitude: 23.335667; geodeticDatum: WGS84; samplingProtocol: under bark of linden stump; verbatimEventDate: 11.iv.2025; habitat: mixed forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000869; recordedBy: Denis Gradinarov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: EE5DAA97-971E-5BA4-92E3-BA73B38E6CC7

Distribution: Austria, Bosnia and Herzegovina, Bulgaria, Czechia, France, Great Britain, Germany, Hungary, Italy, Romania, Portugal, Slovenia, South European Territory of Russia, Switzerland, Ukraine (Schuh 2020); Poland (Ruta 2020); Iran (Farashiani et al. 2022); Moldova (Bacal 2023); Asian Türkiye (Sürgüt and Varli 2023); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, this species has recently been reported from southern Dobrudzha (Trigortsi Village) and from Petrich (Guéorguiev et al. 2026: 4). Here, we report *S. undata* from the city park in Sofia (Fig. 14).

Figure 14.

Synchita undata Guérin-Méneville, 1844 from Sofia City, Bulgaria (male, BFUS-COL000864). Scale bar: 1 mm.

Synchita variegata Hellwig, 1792

Materials

a. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 06.iv.2012–16.v.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000870; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 5E19F76A-F855-50F5-9978-247D31CC0A3B

b. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 06.iv.2012–16.v.2012; habitat: beech forest; individualCount: 1; sex: specimen; catalogNumber: BFUS-COL000871; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 05E69F97-3B2E-503D-B3C8-DE67207C103D

c. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.v.2012–17.vi.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000872; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 68E5D325-3957-5287-B340-EE9C38C4FA1B

d. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.v.2012–17.vi.2012; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000873; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: B70A0769-8AFA-5BF5-A660-4EFC4FEDEC5F

e. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 16.v.2012–17.vi.2012; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000874; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: BB5A32F5-A248-5767-8698-68933C728019

f. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 892 m; decimalLatitude: 41.521697; decimalLongitude: 23.578828; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 10.ix.2012–18.x.2012; habitat: beech forest; individualCount: 1; sex: female; catalogNumber: BFUS-COL000875; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: DBE03ADB-95C6-5EA9-AC6C-5062FEAB8667

g. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Sandanski; locality: Pirin Mountains, SE of Pirin Village; verbatimElevation: 896 m; decimalLatitude: 41.521558; decimalLongitude: 23.578914; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 10.ix.2012–18.x.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000876; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 4804D9FC-87D2-5E6B-A3C6-CF7580665554

h. country: Bulgaria; stateProvince: Blagoevgrad; municipality: Gotse Delchev; locality: Pirin Mountains, NW of Popovi Livadi Village; verbatimElevation: 1562 m; decimalLatitude: 41.556036; decimalLongitude: 23.629097; geodeticDatum: WGS84; samplingProtocol: pitfall traps; verbatimEventDate: 18.vi.2012–20.vii.2012; habitat: beech forest; individualCount: 1; sex: male; catalogNumber: BFUS-COL000877; recordedBy: Ognyan Sivilov; identifiedBy: Denis Gradinarov; dateIdentified: 2026; occurrenceID: 2593CB5D-CCAF-5BE0-A6EF-20DC7EE3E312

Distribution: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, France, Great Britain, Germany, Greece, Hungary, Italy, Liechtenstein, The Netherlands, Portugal, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Serbia and Montenegro, European and Asian Türkiye, Algeria, Nearctic Region (introduced) (Schuh 2020); Poland (Ruta 2020); Belgium (Thomaes et al. 2025).

Notes: In Bulgaria, *S. variegata* is known from Varshets (Western Stara Planina Mountains) (Schuh 1998: 318). We found this species in beech forests of Pirin Mountains (Fig. 15).

Figure 15.

Synchita variegata Hellwig, 1792 from Pirin Mountains, Bulgaria (male, BFUS-COL000872). Scale bar: 1 mm.

Discussion

Twenty-one species of the family Zopheridae are listed for Bulgaria. One of these species – *Colydium noblecourti* is newly reported for the country in the present study. For four species – *Aulonium trisulcum*, *Aulonium ruficorne*, *Langelandia anophthalma* and *Synchita mediolanensis*, we provide exact localities and thus confirm their occurrence in Bulgaria. *Orthocerus clavicornis* is reported for the second time from the country after nearly 60 years of lack of data. For the species *Rhopalocerus rondanii* and *Synchita humeralis*, no published exact localities in Bulgaria are available and further studies on their distribution in the country are desirable.

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References

- Alekseev VI (2025) Rare and regionally new beetles (Coleoptera) from Kaliningradskaya Oblast, Russia. Euroasian Entomological Journal 24 (4): 201-204. https://doi.org/10.15298/euroasentj.24.04.05
- Angelov P (1968a) Neue Koleopterenfamilien und Gattungen für die Fauna Bulgariens (Coleoptera). Natura 2 (1): 97-99.
- Angelov P (1968b) Untersuchungen über Käfer vom Balkan Gebirge (Coleoptera). Travaux Scientifiques de l'Ecole Normale Supérieure “Paissi Hilendarski”, Plovdiv, Biologie 6 (3): 141-146. [In Bulgarian].
- Anonymous (1907) Collections du Musée d'Histoire Naturelle de son Altesse Royale Ferdinand I Prince de Bulgarie. Imprimerie de l'État, Sofia, 484 pp.
- Bacal S (2023) Coleopterele saproxilice și rolul lor pentru ecosistemele forestiere: ghid științifco-metodic. Căpățînă-Print, Chişinău, 94 pp. https://doi.org/10.53937/9789975364447
- Bacal S, Buşmachiu G (2025) *Aulonium trisulcum* (Geoffroy, 1785) (Coleoptera: Zopheridae) at the second mention in the Republic of Moldova. Akademos 2 (77): 67-70. https://doi.org/10.52673/18570461.25.2-77.06
- Bekchiev R, Guéorguiev B (2015) First purposive study of beetles (Coleoptera) from endogean environments in Bulgaria: collection sites and preliminary results. Biodiversity Journal 6 (1): 327-340.
- Bencheva S, Doychev D (2022) Distribution of *Biscogniauxia mediterranea* and its potential insect vectors on *Quercus suber* in Southwestern Bulgaria. Silva Balcanica 23 (1): 57-65. https://doi.org/10.3897/silvabalcanica.23.e89314
- Dajoz R (1968) Révision des Colydiidae Anophthalmes de la Faune Paléarctique (Col.) IV. Études sur les Genres *Anommatus* et *Langelandia*. Annales de la Société entomologique de France (N.S.) 4 (4): 975-988. https://doi.org/10.1080/21686351.1968.12278001
- Dajoz R (1969) Révision des Colydiidae anophtalmes de la faune paléarctique. 3. Étude morphologique et biometrique de *Langelandia anophtalma* Aubé et de *Langelandia reitteri* Bellon. Bulletin du Muséum National d’Histoire Naturelle, Paris 40: 710-717.
- Dajoz R (1971) Coléoptères Colydiidae nouveaux ou peu connus de la région paléarctique. L'Entomologiste 27 (4-5): 83-101.
- Egorov L, Ruchin A, Semenov V, Semionenkov O, Semishin G (2020) Checklist of the Coleoptera of Mordovia State Nature Reserve, Russia. ZooKeys 962: 13-122. https://doi.org/10.3897/zookeys.962.54477
- Farashiani ME, Varandi HB, Kazerani F, Yarmand H, Babaee M, Thorn S, Lange F, Rafiei-Jahed R, Müller J, Amini S (2022) A preliminary checklist of saproxylic beetles (Coleoptera) in the Hyrcanian forests of Iran, with distributional data. Check List 18 (5): 1063-1120. https://doi.org/10.15560/18.5.1053
- Gerend R (2023) Records of new and rare beetles in Luxembourg (Insecta: Coleoptera). Bulletin de la Société des Naturalistes Luxembourgeois 125: 95-112. https://doi.org/10.59513/snl.2023.125.095
- Guéorguiev B (2011) Biodiversity of beetles (Insecta: Coleoptera) in chestnut forests, Belasitsa Mountain. In: Zlatanov T, Velichkov I, Nikolov B (Eds) State and prospects of the *Castanea sativa* population in Belasitsa mountain: climate change adaptation;

maintenance of biodiversity and sustainable ecosystem management. Project BG 0031 EEA report.

- Guéorguiev B, Ivanov V, Georgieva M, Belilov S, Petrova D, Georgiev G (2026) New records of arboreal beetles (Insecta: Coleoptera) from Bulgaria. Historia Naturalis Bulgarica 48 (1): 1-8. https://doi.org/10.48027/hnb.48.011
- Guéorguiev BV, Ljubomirov T (2009) Coleoptera and Hymenoptera (Insecta) from Bulgarian section of Maleshevska Planina Mountain: study of an until recently unknown biodiversity. Acta Zoologica Bulgarica 61 (3): 235-276.
- Harman İ, Avcı M (2023) Contributions to the knowledge of Turkish saproxylic beetle fauna of Anatolian sweetgum forests. Turkish Journal of Entomology 47 (4): 415-431. https://doi.org/10.16970/entoted.1291924
- Ivie M, Lord N, Foley I, Ślipiński SA (2016) Colydiine Genera (Coleoptera: Zopheridae: Colydiinae) of the New World: A Key and Nomenclatural Acts 30 Years in the Making. The Coleopterists Bulletin 70 (4): 755-788. https://doi.org/10.1649/0010-065x-70.4.755
- Jelínek J (1981) Results of Czechoslovak-Iranian entomological expedition to Iran 1970. Coleoptera: Erotylidae, Biphyllidae, Colydiidae, Cerylonidae, Endomychidae, Sphindidae. Acta Entomologica Musei Nationalis Pragae 40: 121-126.
- Joakimov D (1904) Prinos kam balgarskata fauna na nasekomite - Insecta. I. Coleoptera [Contribution to the Bulgarian Insect Fauna - Insecta. I. Coleoptera]. Sbomik za Narodni Umotvorenia, Nauka i Knižnina [Collection of Folklore, Science and Literature] 20: 1-43. [In Bulgarian].
- Kryzhanovsky OL (1965) Family Colydiidae - Cylindrical bark beetles. In: Bei-Bienko G (Ed.) Keys to the Insects of the European Part of the USSR. 2. Nauka, Moscow-Leningrad, 668 pp. [In Russian].
- Lompe A (2026) Die Käfer Europas: Ein Bestimmungswerk im Internet. Begrüundet im September 2002. www.coleo-net.de/coleo/index.htm. Accessed on: 2026-2-28.
- Marczak D, Pepłowska-Marczak D (2025) *Colydium noblecourti* Parmain, Eckelt & Schuh, 2024 (Coleoptera: Zopheridae): new beetle species for the fauna of Serbia and new records of the genus *Colydium* Fabricius, 1792 in Serbia. Acta Entomologica Serbica 30 (1): 27-32. https://doi.org/10.5281/zenodo.15389074
- Merkl O, Németh T, Podlussány A (2016) Beetles from Sălaj County, Romania (Coleoptera, Excluding Carabidae). Studia Universitatis "Vasile Goldiş", Seria Ştiinţele Vieţii 26 (supplement 1): 5-58.
- Molina D (2023) Contribución al conocimiento del género *Aulonium* Erichson, 1845 (Coleoptera: Zopheridae) en la provincia de Alicante (España). Arquivos Entomolóxicos 27: 17-22.
- Orousset J (1989) Coléoptères hypogés de Corse. XX: Le genre *Langelandia* Aubé (Coleoptera, Colydiidae). L'Entomologiste 45 (2): 67-82.
- Otero CJ, Ghahari H (2020) An updated catalogue of the Iranian Zopheridae (Coleoptera Tenebrionoidea). Redia 103: 41-45. https://doi.org/10.19263/redia-103.20.08
- Palm T (1966) Pä koleopterologiska exkursioner vid Bulgariens Svarta havskust. Entomologisk Tidskrift 87 (1-2): 5-22.
- Parmain G, Eckelt A, Schuh R (2024) The genus *Colydium* Fabricius in Europe (Coleoptera, Zopheridae, Colydiinae) with description of a new species, *Colydium noblecourti* sp. nov. Deutsche Entomologische Zeitschrift 71 (2): 289-301. https://doi.org/10.3897/dez.71.121389

- Reitter E (1912) Übersicht der bekannten Arten der Coleopteren-Gattung *Langelandia* Aubé. Wiener Entomologische Zeitung 31: 279-285.
- Roubal J (1931) Fragmente zur Koleopterfaunistik des balkanischen Festlands. Entomologischer Anzeiger 11: 453-454.
- Ruta R (2020) New localities of *Colobicus hirtus* (Rossi, 1790) and *Synchita undata* (Guérin-Méneville, 1844) (Coleoptera: Zopheridae) in Poland. Entomological News (Poland) 39 (3): 17-19. https://doi.org/10.5281/zenodo.3946694
- Schuh R (1998) Revision of the *Synchita variegata* species group (Coleoptera: Zopheridae, Colydiinae). Annales Zoologici 48 (3-4): 313-324.
- Schuh R (2020) Family Zopheridae Solier, 1834. In: Iwan D, Löbl I (Eds) Catalogue of Palaearctic Coleoptera. Tenebrionoidea. Revised and updated 2nd edition, Volume 5. Brill, Leiden & Boston, 970 pp.
- Ślipiński SA, Burakowski B (1988) A review of the genus *Rhopalocerus* W. Redtenbacher of the World (Coleoptera, Colydiidae). Annales Zoologici 42 (2): 75-118.
- Ślipiński SA, Schuh R (2008) Family Zopheridae Solier, 1834. In: Löbl I, Smetana A (Eds) Catalogue of Palaearctic Coleoptera. Volume 5. Tenebrionoidea. Apollo Books, Stenstrup, 670 pp.
- Soldati F, Noblecourt T, Barnouin T (2018) Première mention en France de *Bitoma siccana* (Pascoe, 1863) (Coleoptera Zopheridae). L'Entomologiste 74 (1): 31-3.
- Sürgüt H, Varli SV (2023) Researches on determination of saproxylic beetles (Coleoptera) on old hollow broad-leaved tree species in Cataldag (Balıkesir-Bursa) in Western Türkiye. Biological Diversity and Conservation 16 (2): 102-113. https://doi.org/10.46309/biodicon.2023.1247666
- Temreshev I (2025) First record of the genus *Colobicus* Latreille, 1807 (Coleoptera, Zopheridae) for Kazakhstan. Ecologica Montenegrina 83: 191-198. https://doi.org/10.37828/em.2025.83.19
- Thomaes A, Drumont A, Smets K, Crèvecoeur L, Troukens W, Fagot J, Dekoninck W (2025) Checklist of the beetles of Belgium (Coleoptera). Belgian Journal of Entomology 158: 1-181.
- Węgrzynowicz P (1999) A revision of the genus *Colydium* Fabricius, 1792 (Coleoptera: Zopheridae: Colydiinae). Annales Zoologici 49 (3): 265-328.